

## Accepted Manuscript

Spatio-temporal modeling of destination choice behavior through the Bayesian hierarchical approach

Shen Zhang, Xin Liu, Jinjun Tang, Shaowu Cheng, Yong Qi, Yinhai Wang



PII: S0378-4371(18)30983-X  
DOI: <https://doi.org/10.1016/j.physa.2018.08.034>  
Reference: PHYSICA 19920

To appear in: *Physica A*

Received date: 7 April 2018  
Revised date: 11 June 2018

Please cite this article as: Spatio-temporal modeling of destination choice behavior through the Bayesian hierarchical approach, *Physica A* (2018), <https://doi.org/10.1016/j.physa.2018.08.034>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

### Highlight

A Bayesian hierarchical model is used to study the destination choice behavior through time and space.

INLA and SPDE are combined to model large-scale spatio-temporal correlation structures.

Two-week data from more than 8000 taxis in Harbin are used in the model validation.

The results show the model is capable to capture spatio-temporal variability of destination.

The case study also examines effect of the land-use types to destination choice.

Download English Version:

<https://daneshyari.com/en/article/7374494>

Download Persian Version:

<https://daneshyari.com/article/7374494>

[Daneshyari.com](https://daneshyari.com)